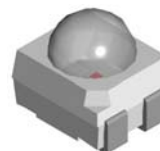


PLCC 4 Dome Package SMD LED

VR 7978

Description

The constructive of this series of LEDs are different from the PCB type SMD LED. The lead-frame is of metal, reflector is made of thermoplastic and construct into this unique type of SMD LED. The Wavelengths and Luminous Intensities of this series are grouped under 50mA for uniformity.



Applications

- Dashboards and switch
- Backlight keypads
- Industrial control systems signal indicator
- Automotive features
- Industrial panel

RoHS



Electronic Optical Characteristics (@50mA):

Part Number	Emitted Color	λ (nm)		Lens Color	Iv(mcd)		View Angle (2 θ 1/2)	VF(V)	
		λ_d	λ_p		Min.	Max.		Min.	Max.
VR 7978	Orange 	615	621	Clear	2240	4500	60	2.15	2.80

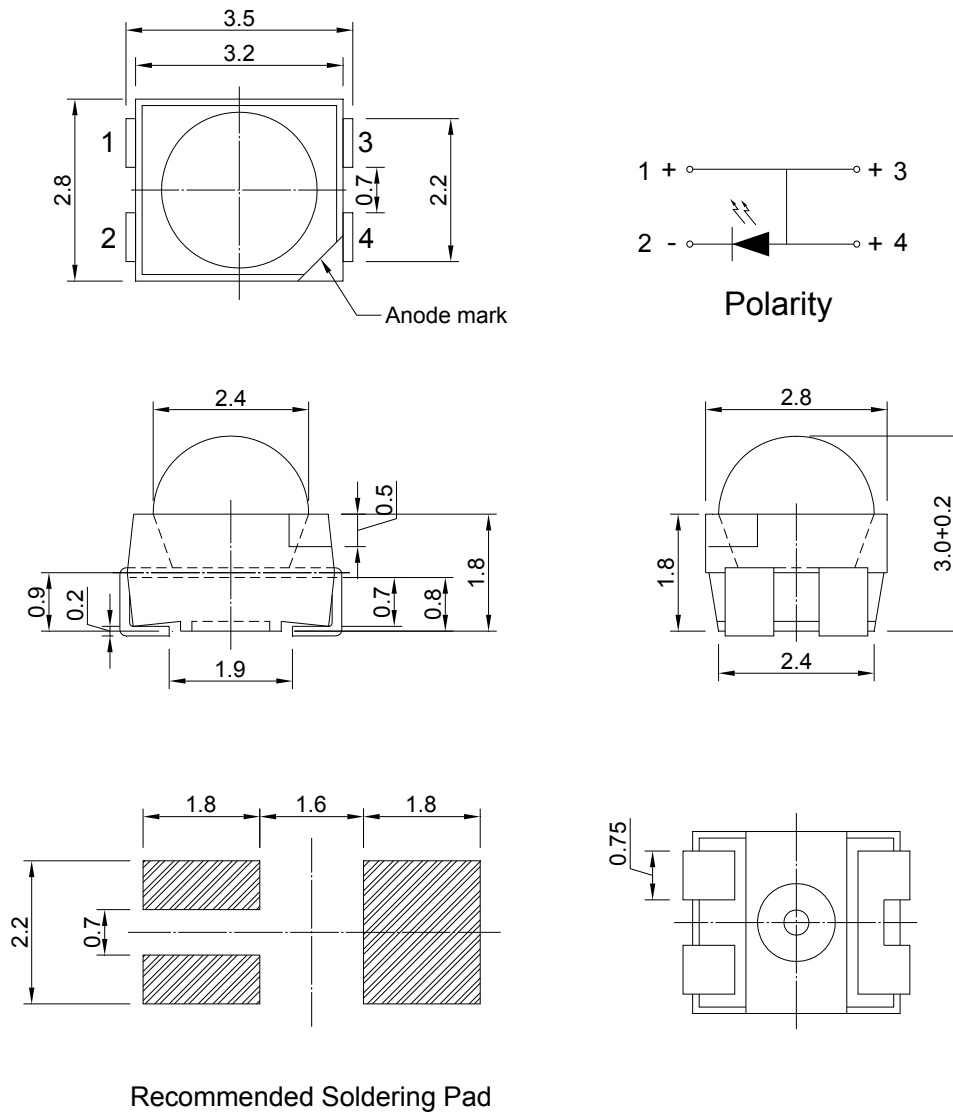
Absolute Maximum Ratings (@ Ta=25°C)

P _D (mW)	I _F (mA)	ESD(V)	I _R (uA) @VR=5V	Topr (°C)	Tstg (°C)
220	70	2000	10	-40~+85	-40~+90

Note: Please take note the Absolute Maximum Rating values. Any operation beyond the specified ratings in this table will result degradation of LED life-span and may cause LED to fail.

Package Dimension:

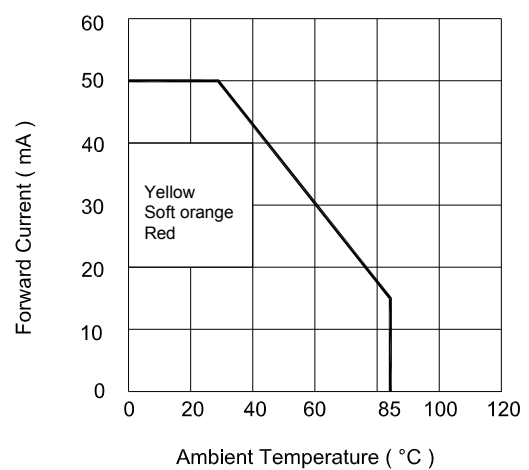
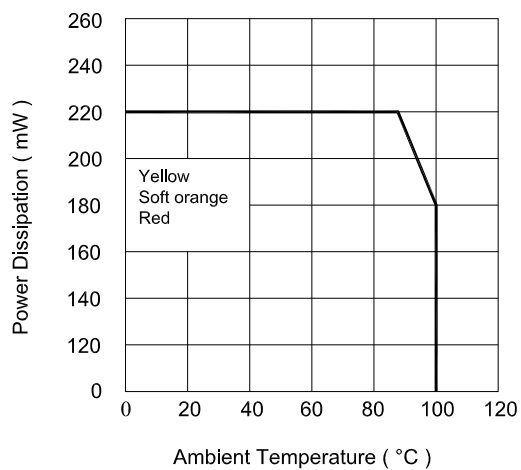
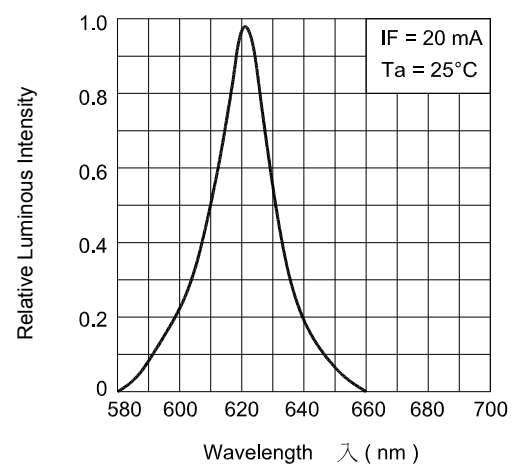
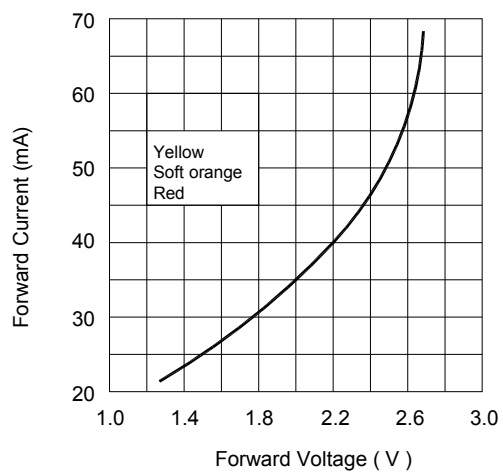
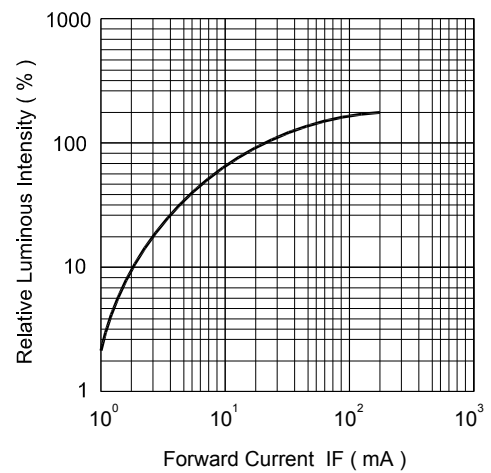
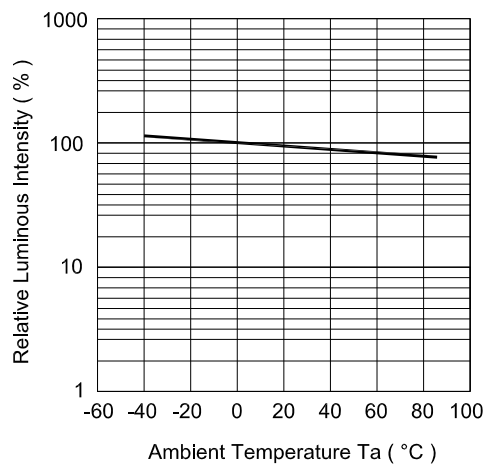
unit:mm



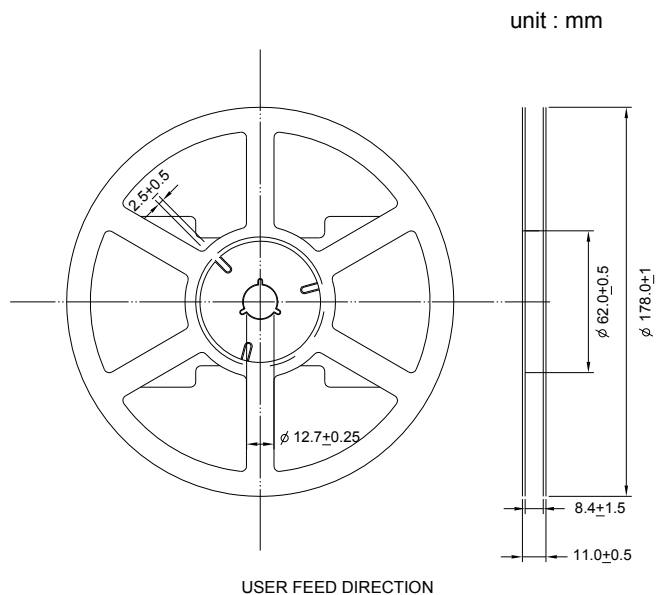
Notes:

1. All dimensions are millimeters.
2. Tolerance is $\pm 0.2\text{mm}$ unless otherwise specified.
3. Specifications are subject to change without notice.

Optical Characteristics Curves

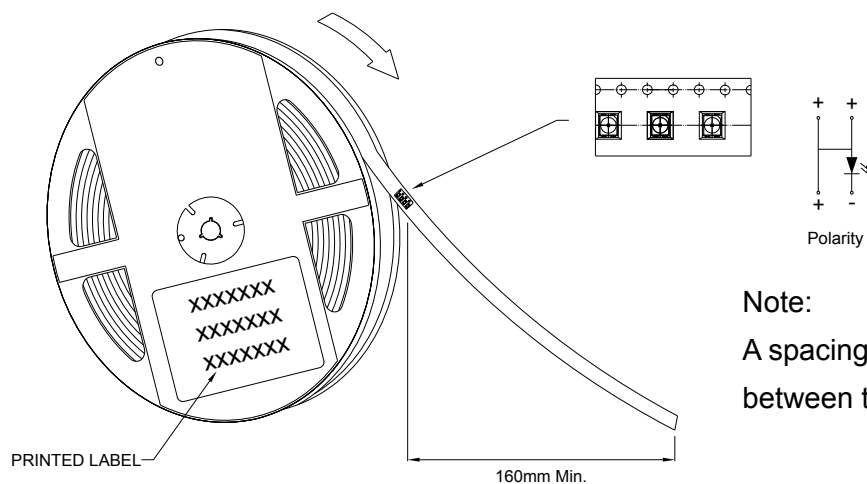


Reel Dimension:



Note:

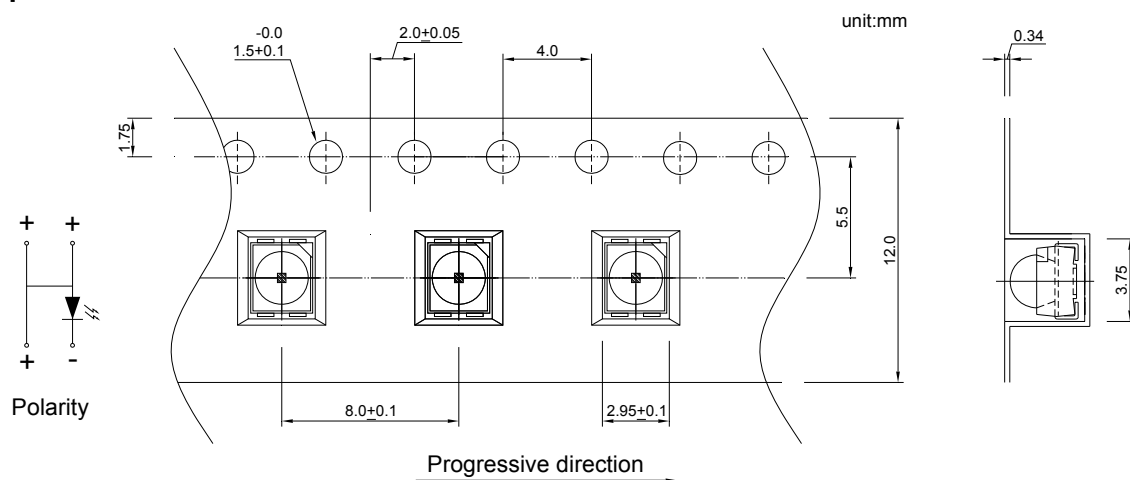
Available in 8mm carrier tape on 178mm diameter reels. (2000 pieces)



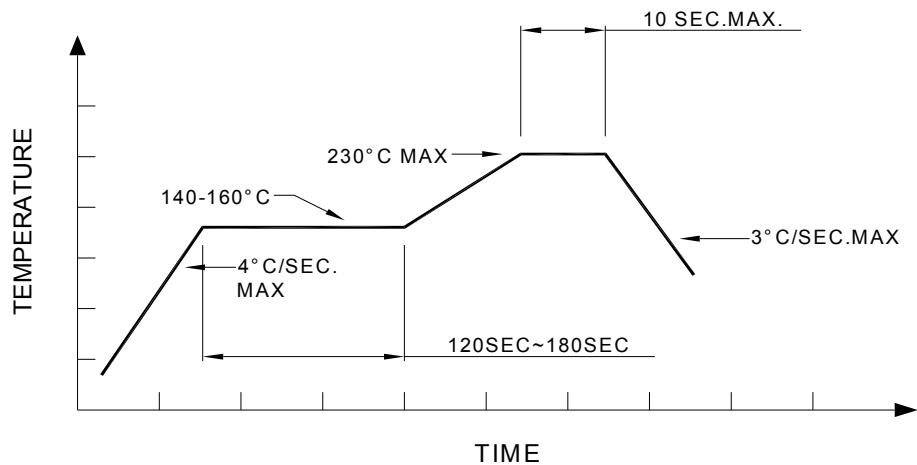
Note:

A spacing of approximately 160mm between the front edge of tape

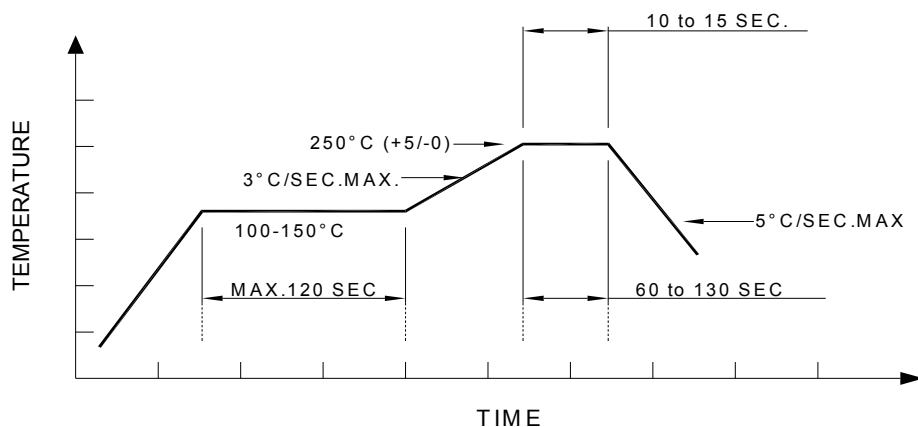
Tape Dimension:



Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:



Specification for bin grade @50mA

LI (mcd)			VF(Volt)			WL (nm)		
Code	Min.	Max.	Code	Min.	Max.	Code	Min.	Max.
49	2240	2800	4	2.15	2.35	10	605.5	609.5
50	2800	3550	5	2.35	2.55	11	609.5	613.5
51	3550	4500	6	2.55	2.80	12	613.5	617.5
			---	---	---	13	617.5	621.5